

GSLV-F11/GSAT-7A

THE MISSION



- India's Geosynchronous Satellite Launch Vehicle (GSLV) – F11 will place 2250 kg GSAT-7A into a Geosynchronous Transfer Orbit
- GSLV-F11 will be launched from the Second Launch Pad (SLP) at Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota
- GSAT-7A is a geostationary communication satellite of India

TARGETED GEOSYNCHRONOUS TRANSFER ORBIT

 Perigee
 : 170 ± 3 km

 Apogee
 : 33,190 to 40,600 km

 Inclination
 : 19,35 ± 0.1 degree



69th

Launch Vehicle Mission from SDSC SHAR

39th

Communication Satellite of ISRO

13th

Flight of GSLV Mark II

7th

Launch of 2018 from SDSC SHAR

7th

Flight of GSLV Mark II with indigenous cryogenic upper stage

Payload Fairing

Diameter: 3.4m

Third Stage

GS3 (CUS15)

Height: 9.894m Diameter: 2.8m

Propellant: LH2 & LOX

First Stage

 $GS1 (S139 + 4 \times L40H)$

S139

Height: 20.176m Diameter: 2.8m Propellant: HTPB

Liquid strap-ons(4 x L40)

Height: 19.682m Diameter: 2.1m

Propellant: UH25 & N,O,

GSAT-7A

Mass: 2250 kg

Second Stage

GS2 (GL40)

Height: 11.938m Diameter: 2.8m

Propellant: UH25 & N₂O₄

THE SATELLITE

- GSAT-7A is a geostationary satellite built to provide communication services in Ku-band over the Indian region
- GSAT-7A is configured using ISRO's 2000 kg satellite bus (I-2K bus)

SALIENT FEATURES

Lift-off Mass : 2250 Kg

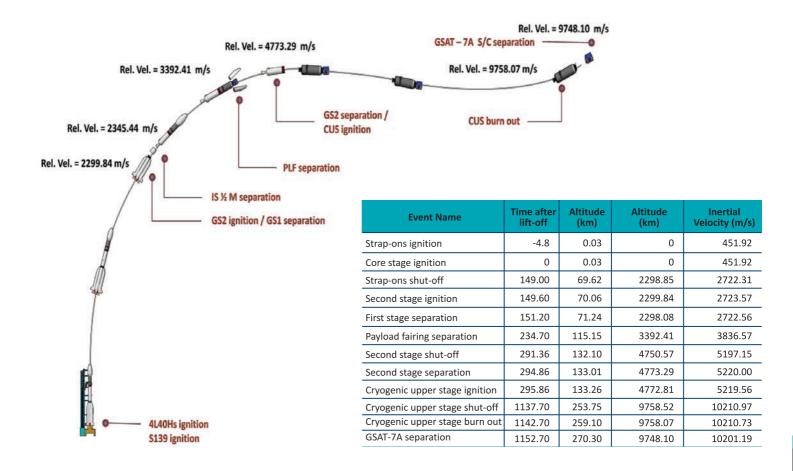
Spacecraft Power : 3.3 kW

Payload : Ku-band transponders

Mission Life : 8 Years



GSLV-F11 Flight Sequence



Glimpses of Launch Vehicle and Satellite Integration

























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